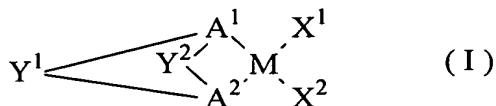


AMENDMENTS TO THE CLAIMS

Please amend the claims as follows:

Claims 1-10 (Canceled).

Claim 11(Previously Presented): A method for producing an  $\alpha$ -olefin/aromatic vinyl compound copolymer, comprising copolymerizing an  $\alpha$ -olefin and an aromatic vinyl compound in the presence of a copolymerization catalyst comprising a transition metal compound component (A) and a co-catalyst component (B), wherein the component (A) is represented by the following Formula I:



wherein each of  $A^1$  and  $A^2$  represents a cyclopentadienyl group or an indenyl group each being optionally substituted by a substituent selected from the group consisting of a monovalent hydrocarbon group, a halogen atom, an alkoxy group, a silicon-containing monovalent hydrocarbon group, a phosphorus-containing monovalent hydrocarbon group, a nitrogen-containing monovalent hydrocarbon group, and a boron-containing monovalent hydrocarbon group; each of  $Y^1$  and  $Y^2$  represents a substituted or unsubstituted alkylene group, a substituted or unsubstituted silylene group, or a germanium-containing group, at least one of  $Y^1$  and  $Y^2$  being a substituted or unsubstituted alkylene group; M represents titanium, zirconium, or hafnium; and each of  $X^1$  and  $X^2$  represents a hydrogen atom, a halogen atom, an alkyl group, an aryl group, an arylalkyl group, an alkylaryl group, an alkoxy group, an aryloxy group, a silicon-containing group, or a sulfur-containing group.

Claim 12 (Previously Presented): The method according to Claim 11, wherein a cyclic olefin and/or a diene is further copolymerized with the  $\alpha$ -olefin and the aromatic vinyl compound.

Claim 13 (Previously Presented): The method according to Claim 11, wherein  $Y^1$  and  $Y^2$  are different from each other.

Claim 14 (Previously Presented): The method according to Claim 11, wherein the copolymerization catalyst further comprises an alkylating agent (C).

Claim 15 (Previously Presented): The method according to Claim 11, wherein the copolymerization is performed in the presence of an additional chain-transfer agent.

Claim 16 (Previously Presented): The method according to Claim 11, wherein the aromatic vinyl compound is styrene.

Claim 17 (Previously Presented): The method according to Claim 11, wherein each of  $A^1$  and  $A^2$  represents an indenyl group that may be substituted by a monovalent hydrocarbon group.

Claim 18 (Previously Presented): The method according to Claim 11, wherein one of  $Y^1$  and  $Y^2$  represents a substituted or unsubstituted alkylene group and the other represents a substituted or unsubstituted silylene group.

Claim 19 (Canceled).

Claim 20 (New): The method according to Claim 11, wherein each of  $Y^1$  and  $Y^2$  represents an alkylene group selected from the group consisting of a methylene group, an ethylene group, a propane-1,3-diyl group, and a butane-1,4-diyl group, each being optionally substituted by a substituent selected from the group consisting of a methyl group, an ethyl group, a propyl group, a butyl group, a tert-butyl group, a cyclohexyl group, a phenyl group, and 2,6-demethylphenyl group.

SUPPORT FOR THE AMENDMENTS

Claim 19 has been canceled.

Claim 20 has been added.

New Claim 20 is supported by the specification at page 6, line 22 to page 7, line 5.

No new matter has been added by the present amendment.